Turos

[45] Aug. 24, 1982

[54]	PROCESS FOR PREPARING CRUMB PRODUCTS	
[76]	Inventor: Sandor Turos, Gamla Särövägen 113, S-436 00 Askim, Sweden	
[21]	Appl. No.:	227,882
[22]	PCT Filed:	Mar. 17, 1980
[86]	PCT No.:	PCT/SE80/00081
	§ 371 Date:	Nov. 3, 1980
	§ 102(e) Date:	Nov. 3, 1980
[87]	PCT Pub. No.:	WO80/01869
PCT Pub. Date: Sep. 18, 1980		
[30] Foreign Application Priority Data		
Mar. 16, 1979 [SE] Sweden 7902399		
[51] [52]	U.S. Cl	
[58]		426/580, 583–587,
426/602, 613, 631, 660, 533, 471, 443		
[56]		ferences Cited
U.S. PATENT DOCUMENTS		
3		Rusoff
FOREIGN PATENT DOCUMENTS		
	1306356 2/1973	United Kingdom 426/580

Primary Examiner—Jeanette M. Hunter Attorney, Agent, or Firm—Abelman, Frayne & Rezac

[57] ABSTRACT

A process for the manufacturing of crumb products by preparing a first raw material flow F1 containing components or part flows f1-f4, of which f1 contains liquid milk or milk products at a dry solids content of 2-70% by weight, f2 contains sugar raw materials in the form of tetroses, pentoses, hexoses, sugar alcohols, disaccharides, partially hydrolyzed starch, syrup products, or different combinations thereof, f3 contains dry protein raw materials at the same dry solids contents as stated for f1, f4 contains one or more amino acids and a second flow F2 consisting of part flows f5 and optionally f6, of which f5 contains fatty components and f6 consists of an emulsifier for the fat phase and that the flow f1 at a dry solids content of 20-70% by weight and a pH in the range of 4-8, preferably 6.5-7.5, is heat treated at a temperature of 100°-130° C. during a period of time of about 7-2 minutes for performing a Maillard reaction, and subsequently is cooled to a temperature of suitably 80°-95° C.; whereupon the flow f1 at the said temperature and f2 at a temperature of 65°-75° C. are metered into an emulsifying vessel for the formation of an emulsion of f2 in f1, which emulsion is submitted to a homogenizing treatment, whereupon the crumb emulsion formed is either used directly or dried to the formation of a powder which can be submitted to a further heattreatment for a completing Maillard reaction, further drying and sieving.

12 Claims, 3 Drawing Figures